OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/993,731

DATE: 12/05/2001

TIME: 10.22:11 ERED

Input Set : A:\RTS-0302 Sequence Listing.txt

Output Set: N:\CRF3\11212001\I993731.raw

	3	<110>	APPLICANT: Bret	t P. Monia				
	4		Andrew T. Watt					
					NSE MODULAT	ION OF INHI	BITOR-KAPPA	B-R EXPRESSION
			FILE REFERENCE:					
			CURRENT APPLICA		• •	,731		
C>			CURRENT FILING		11-13			
			NUMBER OF SEQ I SEQ ID NO: 1	D NOS: 69				
			LENGTH: 20			•		
			TYPE: DNA					
			ORGANISM: Artif	icial Seque	nce			
			FEATURE:	· · · · · · · · · · · · · · · ·				
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	22	<400>	SEQUENCE: 1					
	23	tccgt	categ etectcaggg					20
			SEQ ID NO: 2					
			LENGTH: 20					
			TYPE: DNA					
			ORGANISM: Artif FEATURE:	iciai seque	nce			
			OTHER INFORMATI	ON: Antisen	se Oligonuc	leotide		
			SEQUENCE: 2	on. Anciben	se orrgonae.	recerde		
			tetg cececaagga					20
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	40	<211>	LENGTH: 7543					
			TYPE: DNA					
			ORGANISM: Homo	sapiens				
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			ggetg tgeegtggee getge ttgeaggtge					120
			ctttt ctgaggaggg					180
			gacc tgacgcagcc					240
			ettte etgggaetgg					300
			ttta gctgtgtttg					360
			gctg ctggaggcag					420
			agcg ttggctgcat					480
			gagg ggcacgtgtc					540
			ttag caagaacagg					600
			ttac agcagtgact					660 720
			ccct gcgcaaccac gacat ctatgaccac					780
			agag cttggctatt					840
			ctcc tgaacttcgg					900
			cccg tcttctggag					960
			acct ttcccctgga					1020
	82	aggaca	cttg cacccacctc	gggaggaggg	agggggtagg	agaggcgctg	cacaggcccc	1080

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84	aaatqgggcc	caaagctgga	aaccccatgt	ggggaggaag	tggctgagtg	tttgggggtt	1140
86	tatcttccag	ggacactggc	ccagggagag	ctgaatgaga	tgaggacccg	cctctatctc	1200
- 88	aacctgggcc	tcacctttga	gagcctgcag	cagacagccc	tgtgcaacga	ttacttcagg	1260
					aggagggagt		1320
					tcctcctgag		1380
					cactgggaga		1440
					ccgtgtggca		1500
					gcaggcagaa		1560
						gggccagcac	1620
						gaggaagcgg	1680
						tggctccgag	1740
						tcctttgctc	1800
						aagaaggcct	1860
						ctccagcatg	1920
						cctgggggcg	1980
						cctgagcacc	2040
						tgacaggaga	2100
						gggcggccag	2160
						gagacagtag	2220
						ggagtgctga	2280
						ccaggcacca	2340
						caggetggag	2400
						ccattctcct	2460
						gctgattttt	2520
						atctcctgac	2580
						agccactgta	2640
						tccccaagat	2700
						agtggggggg	2760
						ctgtgctgcc	2820
						aacagctgga	2880
						taggggacct	2940
						aggtgtgtgg	3000
						gggtggcagc	3060
						cagaccgggt	3120
							3180
						gaaggaccac	3240
						cgtgctggag	3300
						caggactgcc	3360
128	gtteteaggg	tggccatgga	. caggigicei	. caccygacyg	, geageteett	cctaggacca	3420
						gggaagettg	3480
						tcctgctcca	
						atgcctacga	3540
						agcgtgccca	3600
						agcttcgttg	3660
						ccccagtcc	3720
						taccgtgcag	3780
						gctcagtgta	3840
						ggagagcgaa	3900
						gcaccttgca	3960
180	tttccctggg	cctgctctgg	geegggetgg	agaggggtgt	. gctgtgctgc	tgtggagcct	4020

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182	gcttagggct	gtagcaggaa	cagccacagg	caggcaggac	ggccagtgct	ttcccggaac	4080
184	tggacagaga	aggtggtgac	ccgcagagcc	tggggcggcc	ttggctcctg	gaggagacag	4140
186	tggttgggag	tcgagtgagt	gtcagctggg	gcatggtccc	gttagagagg	cacgtgccat	4200
		gggtgagacg					4260
190	agcaccttcc	tgaaaccctt	cagagcaggc	ttgggtttcc	tccagaggct	ggcgacatca	4320
		gggcaggcat					4380
		cagggagaga					4440
196	tctgactgag	tggtgggtgg	caggagcctg	tccatgaggc	ctgttggggg	gtgttccagg	4500
		acttcagctc					4560
200	gctgtgggaa	gttggggcct	tgccaggttg	gttgctgggg	ggaggtggat	caggatctag	4620
		aatgctgctc					4680
		gggtgtgaag					4740
		gctgcctagg					4800
		gcctgacgac	-				4860
		ccacgageeg					4920
		caggccttct					4980
		agtgggcaga					5040
		gcagcgctgg					5100
		cccgtctctg					5160
		taaccttcac					5220
		ccgatggcct					5280
		ggaaggggag					5340
226	cagcagccct	gccagctcct	cacgcccctg	ccctgtgctg	ggttggctgt	gcccacagtg	5400
		aacgacatgg					5460
230	gcgccgcgtc	caggaccttg	tgaggcaggt	gggccccgct	ctgggacgtg	ggacaggctg	5520
		aggagctgtg					5580
234	ctcatcttca	aaatggggcc	ccttagcaag	catggtggca	cttgcctgtg	gtcctagagg	5640
		acgtcatcct					5700
238	tgcactccag	cctgggcaac	acagtgagac	cctgtttcaa	aaaaatttaa	aaagcggggg	5760
240	ctgcacgggg	tggcttatgc	ctgtaatccc	agcactttgg	gatgccaagg	caggcagatc	5820
242	acatgagccc	aggagttcga	gaccagcctg	ggcaccctgg	caagaccttg	tctccaagaa	5880
244	atttaaaaat	taggtggatg	tgatggcgtg	tgcctgtagt	actacagctg	ctttggaggt	5940
246	tgaggtggga	gggttgcttg	agcctaggag	gtggaggctg	cagtgagcca	tgatcttgcc	6000
		aacctgtgtg					6060
250	ggtacagtgg	cttatgtcta	taatcctagc	actttgggag	gctgaggcgg	ggggattgca	6120
252	tgaggtcagg	agtttgagac	cagtctggct	aacatggtga	aaccctgtct	ctactaaaaa	6180
254	tacaaaaata	ttagctgggt	atggtggcac	atacctgtag	tcccagctac	tcgggaggct	6240
256	gaggcaggag	aatcgcttga	acctgggagg	cggaggttgc	gatgagatga	gattgcgccg	6300
258	ctgcactcca	gcctgggtga	cagagcgaga	ctctgtctca	aaaaaaaca	caaaaaaatg	6360
260	gggtgcccag	gctgggcgcg	gtggttcata	cctgtaatcc	cagcactttg	ggaggccaag	6420
262	gtgggcagat	cacgaggtca	ggagcttgag	accagcctgg	ctggtctcaa	aaaaaaatg	6480
		tgtgtggtat					6540
266	gggggctagc	ccatgggctg	agatctgggc	accttcctgc	cccgcctgcc	tcatgcccct	6600
268	gcgaccaggt	gcactgtctc	cccacaaggg	gaccgggcag	gcacagaggc	ggaggatatg	6660
		tccacctgtc					6720
		gggcagggcc					6780
		gcagagctca					6840
		cttggtcaca					6900
278	cctctgcacg	aggcctgcaa	ctacgggcat	ctaggtgagc	aagggacaga	aggagcctgg	6960

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280 c	cgcaccttgg tggacacgtg gggcgaagag to	eagtcctgg	cggggcatcg	ggagctgggc	7020
282 t	ttacgtctcc tggtctgcag aaattgtccg ct	tcctgctg	gaccacgggg	ccgcagtgga	7080
284 0	cgacccaggt ggccagggct gcgaaggcat ca	ecccctc	cacgatgccc	tcaactgtgg	7140
286 c	ccacttcgag gtggctgagc tgctgcttga ac	ggggggcg	tccgtcaccc	tccgcactcg	7200
288 a	aaaggtgagc ctggtggggc agagggcaag gg	gcgaggtta	tgggggctgc	tgtgcccctg	7260
	ctcaactgat gccacacagg gcctcagccc gc				7320
	gtaccgcagg gacctggacc tggagacgcg gc				7380
294 c	ccaggegget geetegggee aaggeaagea gg	gcgtccct	tgtccctggg	gttgctgtgc	7440
	ctacgetgag agteceeggg eeetgattte gg			tggagcggga	7500
298 g	ggtgccgggc cectgectca acacgcatte to	ctctcccac	aga		7543
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302 <	<211> LENGTH: 21				
303 <	<212> TYPE: DNA				
304 <	<213> ORGANISM: Artificial Sequence	ž			
306 <	<220> FEATURE:				
308 <	<223> OTHER INFORMATION: PCR Primer	2			
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	qcacccacct ggacatctat g				21
-	<210> SEQ ID NO: 5				
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317 <	<213> ORGANISM: Artificial Sequence	غ			
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-	<223> OTHER INFORMATION: PCR Primer	:			
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	<210> SEQ ID NO: 6				
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	<212> TYPE: DNA				
	<213> ORGANISM: Artificial Sequence				
	<220> FEATURE:				
	<223> OTHER INFORMATION: PCR Probe				
	<400> SEQUENCE: 6				
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-	<212> TYPE: DNA				
	<213> ORGANISM: Artificial Sequence	<u> </u>			
	<220> FEATURE:				
	<pre><223> OTHER INFORMATION: PCR Primer</pre>	-			
	<400> SEQUENCE: 8				
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RAW SEQUENCE LISTING DATE: 12/05/2001 PATENT APPLICATION: US/09/993,731 TIME: 10:22:12

Input Set : A:\RTS-0302 Sequence Listing.txt
Output Set: N:\CRF3\11212001\I993731.raw

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	<213> ORGANISM: Artificial Sequence						
	<220> FEATURE:						
	<223> OTHER INFORMATION: PCR Probe						
	<400> SEQUENCE: 9						
376	caagetteee gtteteagee	20					
	<210> SEQ ID NO: 10						
380	<211> LENGTH: 2525						
381	<212> TYPE: DNA						
382	<213> ORGANISM: Homo sapiens						
	<220> FEATURE:						
386	<220> FEATURE:						
	<221> NAME/KEY: CDS						
	<222> LOCATION: (849)(2298)						
	<400> SEQUENCE: 10						
	ctctgggctg tgccgtggcc caccgcaaga tcggagagcg cctggccgag atggaggact	60					
	acceggetge ttgcaggtge gggegecete actggeeteg tecageeegg teggeetetg	120					
	gagccctttt ctgaggaggg aggcctggtc ttcgccgtca ggagcctcgg gctggagggg	180					
	acacetgace tgacgeagee ttgcettcac egeceeggge eagteteegg tggggaceee	240					
	acageettte etgggaetgg ggeaggagta ggttteetgg caccagaaac cattactgaa egttattta getgtgtttg tgttggggga ggteaggeee catcecaaaa geteteeetg	300					
	accotggetg etggaggeag gaetgeaace coccegecaa etcecagetg eccetecea	360 420					
	cgtgacageg ttggctgcat acagegtgaa gecactgtea ceacagagag ceettggcat	480					
	gcagaggagg ggcacgtgtc tggccttggc ctgctctgtg ggggttaggg ggagcaggct	540					
	ctttccttag caagaacagg gtctctggga atctggcggt gccggtttgc ttgaggcgga	600					
	gtoggottac agcagtgact toottocaca otcagcacca gcaccagtac otggagotgg	660					
	cacatteect gegeaaceae aeggagetge agagggeetg ggeeaceate ggeegeacee	720					
	acctggacat ctatgaccac tgccagtcga gggatgcttt gctgcaggca caggctgcct	780					
	ttgagaagag cttggctatt gtggatgagg agttggaggg gacactggcc cagggagagc	840					
419	tgaatgag atg agg acc cgc ctc tat ctc aac ctg ggc ctc acc ttt gag	890					
420	Met Arg Thr Arg Leu Tyr Leu Asn Leu Gly Leu Thr Phe Glu						
421	1 5 10						
	age etg cag cag aca gee etg tge aac gat tac tte agg aag age ate	938					
	Ser Leu Gln Gln Thr Ala Leu Cys Asn Asp Tyr Phe Arg Lys Ser Ile						
425	15 20 25 30						
	ttc ctt gcg gag cag aac cac ctt tac gag gac cta ttc cgc gcc cgc	986					
	Phe Leu Ala Glu Gln Asn His Leu Tyr Glu Asp Leu Phe Arg Ala Arg						
429	35 40 45	1004					
	tac aac ctg ggc acc atc cac tgg cgc gcg ggc cag cac tcc cag gct	1034					
432	Tyr Asn Leu Gly Thr Ile His Trp Arg Ala Gly Gln His Ser Gln Ala 50 55 60						
	atg cgc tgc ttg gag ggt gcc cgg gag tgt gcg cac acc atg agg aag	1082					
	Met Arg Cys Leu Glu Gly Ala Arg Glu Cys Ala His Thr Met Arg Lys	1002					
437	65 70 75						
	cgg ttc atg gag agc gag tgc tgc gtg gtt att gca cag gtc ctc caa	1130					
	Arg Phe Met Glu Ser Glu Cys Cys Val Val Ile Ala Gln Val Leu Gln						

VERIFICATION SUMMARY

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Input Set : A:\RTS-0302 Sequence Listing.txt
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 $L\!:\!10$ M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date